



BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328



THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

60% DESIGN DOCUMENTS



NCWSA OFFICE ADDITION

REVISIONS

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MAP
DRAWN: MAP
CHECKED: JFW
CHECKED:
APPROVED:

FILENAME
BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

ELECTRICAL
MECHANICAL
EQUIPMENT
CONNECTIONS
SCHEDULE

DRAWING NUMBER
E502

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

| EQUIPMENT | | | | | | | | POWER SUPPLY | | | | | CONTROL DEVICES | | | | | | | | | | NOTES | | | | |
|------------------|-----------------------|-------------------|-----|-----|------|-------|---------|--------------|-----------------|-----------------------------|--------------------------|--------------|-------------------|-----------|----------|-------------------|--|---------------------------------|--|--|--------------------------------------|---|-------|---------------------------------|--------|-------------------------|--------|
| ITEM DESIGNATION | EQUIPMENT NAME | ROOM/LOCATION | HP | KW | AMPS | PHASE | VOLTAGE | SOURCE | CIRCUIT BREAKER | CONDUCTOR SIZE (AWG) COPPER | GROUND SIZE (AWG) COPPER | RACEWAY SIZE | DISCONNECT SWITCH | | | STARTER NEMA SIZE | COMBINATION FVNR MOTOR STARTER/DISCONNECT SWITCH | FRACTIONAL HP DISCONNECT SWITCH | DISCONNECT SWITCH AT UNIT (SUPPLIED BY OTHERS) | PACKAGED CONTROL UNIT (SUPPLIED BY OTHERS) | THERMOSTAT CONNECTION (LINE VOLTAGE) | VARIABLE FREQUENCY DRIVE (PROVIDED BY OTHERS) | | DUCT DETECTOR WITH TEST STATION | | FIRE ALARM FAN SHUTDOWN | |
| | | | | | | | | | | | | | SWITCH AMPS | FUSE AMPS | LOCATION | | | | | | | | | RETURN | SUPPLY | RETURN | SUPPLY |
| RTU-1 | ROOFTOP UNIT | ROOF | | | 62.0 | 3 | 208 | MDP | 80A/3P | (3)#2 | #8 | 1-1/4" | | | | | | X | | | X | X | X | X | X | 1,2 | |
| RTU-2 | ROOFTOP UNIT | ROOF | | | 62.0 | 3 | 208 | MDP | 80A/3P | (3)#2 | #8 | 1-1/4" | | | | | | X | | | X | X | X | X | X | 1,2 | |
| RTU-3 | ROOFTOP UNIT | ROOF | | | 68.0 | 3 | 208 | MDP | 90A/3P | (3)#2 | #8 | 1-1/4" | | | | | | X | | | X | X | X | X | X | 1,2 | |
| EF-1 | EXHAUST FAN | ROOF | 1/4 | | | | 1 | 120 | PP1 | 15A/1P | (2)#12 | #12 | 3/4" | | | | | X | | | | | | | | 1 | |
| VAV1-1 | VARIABLE AIR VOLUME | LOBBY - 101 | | 4.9 | 13.6 | 3 | 208 | PP1 | 20A/3P | (3)#12 | #12 | 3/4" | | | | | | | | | | | | | | 1 | |
| VAV1-2 | VARIABLE AIR VOLUME | PREFUNCTION - 144 | | 6.1 | 16.9 | 3 | 208 | PP1 | 30A/3P | (3)#10 | #10 | 3/4" | | | | | | | | | | | | | | 1 | |
| VAV1-3 | VARIABLE AIR VOLUME | LOFT - 259 | | 2.8 | 7.8 | 3 | 208 | PP1 | 20A/3P | (3)#12 | #12 | 3/4" | | | | | | | | | | | | | | 1 | |
| VAV1-4 | VARIABLE AIR VOLUME | LOFT - 259 | | 3.1 | 8.6 | 3 | 208 | PP1 | 20A/3P | (3)#12 | #12 | 3/4" | | | | | | | | | | | | | | 1 | |
| VAV2-1 | VARIABLE AIR VOLUME | LOFT - 259 | | 6.5 | 18.0 | 3 | 208 | PP1 | 30A/3P | (3)#10 | #10 | 3/4" | | | | | | | | | | | | | | 1 | |
| VAV2-2 | VARIABLE AIR VOLUME | CORRIDOR - 261 | | 6.0 | 16.7 | 3 | 208 | PP1 | 30A/3P | (3)#10 | #10 | 3/4" | | | | | | | | | | | | | | 1 | |
| VAV2-3 | VARIABLE AIR VOLUME | CORRIDOR - 261 | | 1.6 | 4.4 | 3 | 208 | PP1 | 20A/3P | (3)#12 | #12 | 3/4" | | | | | | | | | | | | | | 1 | |
| VAV2-4 | VARIABLE AIR VOLUME | CORRIDOR - 262 | | 2.7 | 7.5 | 3 | 208 | PP1 | 20A/3P | (3)#12 | #12 | 3/4" | | | | | | | | | | | | | | 1 | |
| VAV3-1 | VARIABLE AIR VOLUME | STORAGE - 142 | | 5.7 | 15.8 | 3 | 208 | PP1 | 20A/3P | (3)#12 | #12 | 3/4" | | | | | | | | | | | | | | 1 | |
| VAV3-2 | VARIABLE AIR VOLUME | STORAGE - 142 | | 3.8 | 10.6 | 3 | 208 | PP1 | 20A/3P | (3)#12 | #12 | 3/4" | | | | | | | | | | | | | | 1 | |
| VAV3-3 | VARIABLE AIR VOLUME | STORAGE - 142 | | 3.6 | 10.0 | 3 | 208 | PP1 | 20A/3P | (3)#12 | #12 | 3/4" | | | | | | | | | | | | | | 1 | |
| HWRP-1 | HOT WATER RETURN PUMP | STORAGE - 249 | | | 0.8 | 1 | 120 | PP1 | 15A/1P | (2)#12 | #12 | 3/4" | | | | | | X | | | | | | | | 1 | |
| EW-1 | ELECTRIC WATER HEATER | CLOSET - 250 | | 6.0 | 28.8 | 1 | 208 | PP1 | 40A/2P | (3)#8 | #10 | 3/4" | | | | | | | | | | | | | | 1 | |

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1. PROVIDE HACR TYPE CIRCUIT BREAKER FOR THIS EQUIPMENT.
2. EXISTING FIRE ALARM DUCT DETECTORS LOCATED DOWNSTREAM OF THE AIR HANDLING UNIT ARE TO REMAIN FOR REUSE.
3. REUSE EXISTING EMERGENCY POWER FEED FOR THE SMOKE PURGE SYSTEM. MAKE ALL REQUIRED ELECTRICAL TERMINATIONS FOR THE SMOKE PURGE SYSTEM.